ZWL_

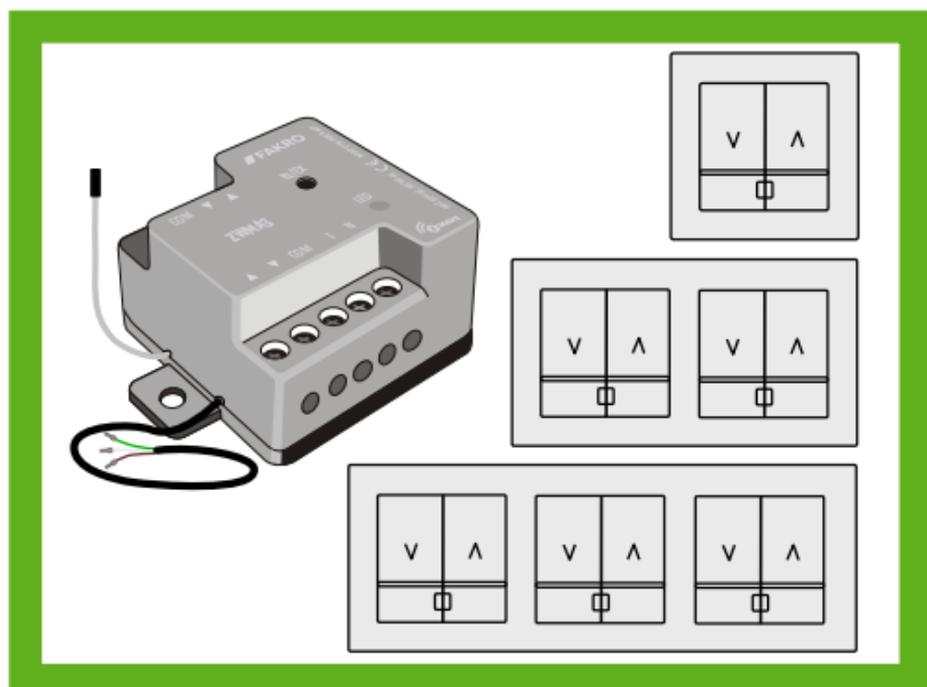**Z-Wave controller ZWL1**
User Manual

The ZWL1, ZWL2, ZWL3 are radio controllers compatible with the Z-Wave communication protocol. Depending on the version, they have one, two or three buttons and can operate one, two or three groups of the Z-Wave products respectively. The ZWL controllers can operate as the basic controller of the Z-Wave network – PRIMARY or additional – SECONDARY. The ZWL controllers are powered by 90-230V AC.

⚠ Important Information

1. Please read carefully instructions before proceeding to the device operation.
2. The device is powered by 90-230V AC and can be installed only by a properly trained person with an appropriate authorization for working with this type of voltage!
3. The device must be installed out of children reach.
4. The device radio range is directly dependent on the environment
5. When programming the ZWL to another Z-Wave device please read carefully instructions.
6. We declare with full responsibility that the ZWL device is compliant with the following European Directives:
a) 2006/95/EEC Low Voltage
b) 2004/108/EEC Electromagnetic Compatibility
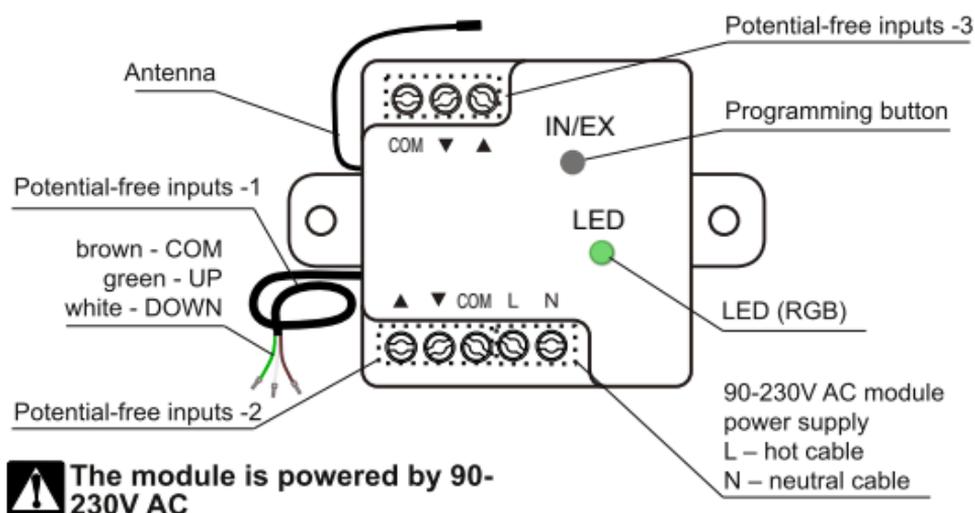c) 1995/5/EEC R&TT EC

Technical Specification

Working temperature - (+5°C) to (40°C)
Working range in rooms up to 40 [m]
Radio Protocol – Z-Wave
Working frequency – 868.4 [MHz] (EU); 908,4[MHz] (USA); 921,4[MHz] (AN/NZS)
Power supply - 90-230VAC
Dimensions (length /width /height) - 42/42/26 [mm]

Operated Z-Wave functions:
Include – adding device to the Z-Wave network
Exclude – removing device from the Z-Wave network
Associate – adding device to a particular imput of ZWMA3 module
Learn Mode – adding ZWL to the network as an additional controller-Secondary

Module Description

- Antenna
- Potential-free inputs -3
- Programming button
- IN/EX
- COM ▼ ▲
- Potential-free inputs -1
  - brown - COM
  - green - UP
  - white - DOWN
- LED
- ▲ ▼ COM L N
- LED (RGB)
- Potential-free inputs -2
- 90-230V AC module power supply
  - L – hot cable
  - N – neutral cable

⚠ **The module is powered by 90-230V AC**

Installation and control description

The device must be connected following fitting instructions included with the product (depending on the version of a set ZWL1, ZWL2, ZWL3) with particular emphasis on the position of the antenna!
Note! The module must be powered after connecting to operating buttons.
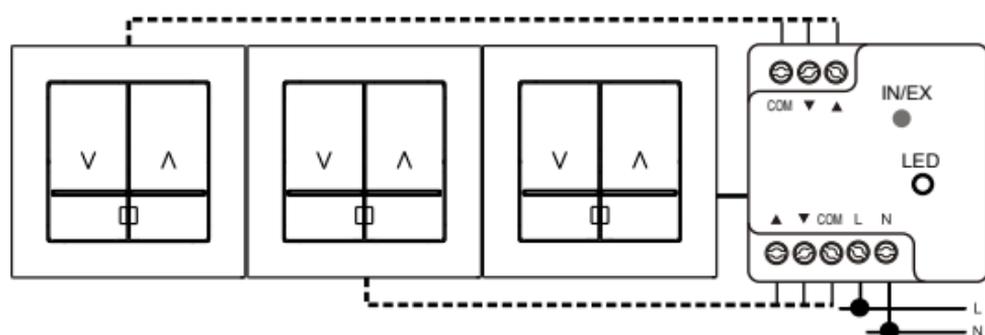
Basic – COM short circuit with one of the other pins ("up" or "down") will send the command "open" or "close" respectively. The short circuit of three pins will send the command "stop".
In case of incorrect radio transmission, LED will blink three times in green.

Multilevel – COM short circuit with one of other pins ("up" or "down") longer than 0.5 sec. will send the command "open" or "close" respectively as long as this short circuit is sustained. Open circuit will send the command "stop".

In case of incorrect radio transmission, LED will blink three times in blue.
(Change of the mode is described in section "Change of module parameters").

Module programming

Programming the module must be carried out after connecting the wall switch or switches to which you want assign the device.

Adding device to the Z-Wave network and particular switch (Include + Associate)
Note! The device cannot be assigned to another Z-Wave network!
1. Press shortly IN/EX switch on the module (Include). When green LED is on, press "up" or "down" button on the switch (Associate).
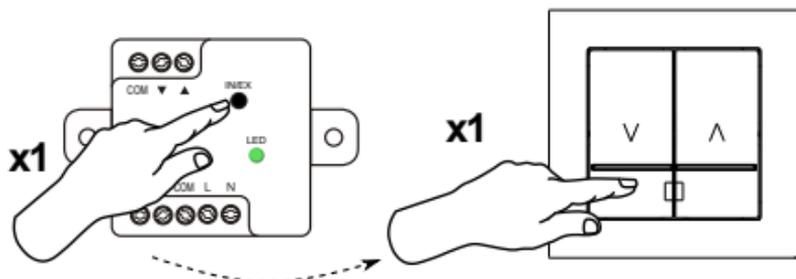
2. When green LED starts blinking, press P programming button within 60 seconds on the device you want to control.
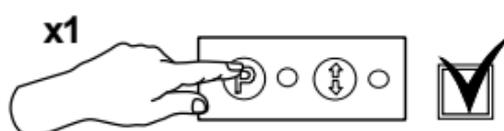
After correct adding, LED on the module and network status LED on the device go off (see user manual).
**After 10 seconds the module is ready to be controlled.**

Programming procedure can be stopped by pressing IN/EX switch again.

Module programming

Adding the module to existing Z-Wave network as an additional controller - Secondary (Learn Mode).

To perform this function, please read instructions of the basic controller - PRIMARY which as the only one can add and remove the device from a particular Z-Wave network.

1. Perform Include procedure on the basic controller of the Z-Wave network.
2. Press three times IN/EX switch on the ZWMA3 module. LED will emit blue light.
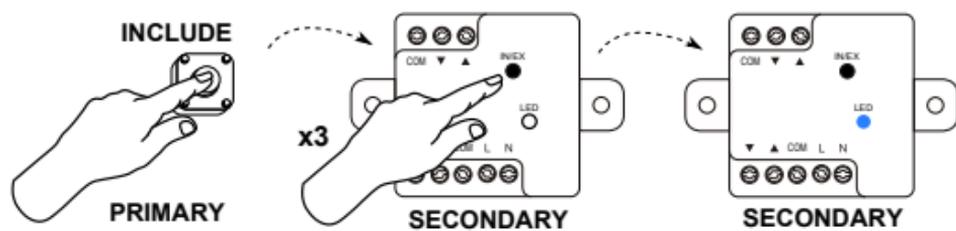
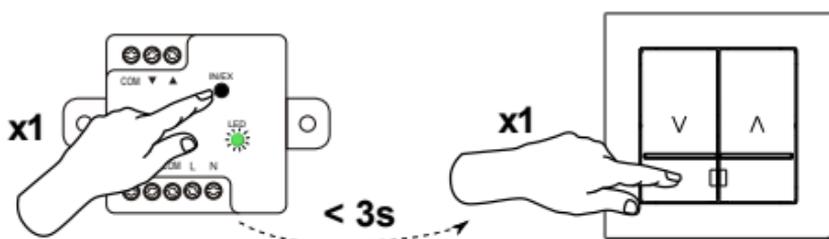After correct adding, blue LED on the module goes off.
Once the procedure is failed, LED blinks three times and goes off.
To set the module as PRIMARY again, reset the module using Default function.

Adding device to a particular switch of the module which works in the network as an additional controller - Secondary (Associate)

Added device must be in the same Z-Wave network as the module!

1. Within three seconds, press once IN/EX switch on the module and one of buttons of the switch connected to the input [1,2 or 3] from which you want to control the device.

2. When LED starts blinking, press P button within 60 seconds on the device you want to control (see user manual).
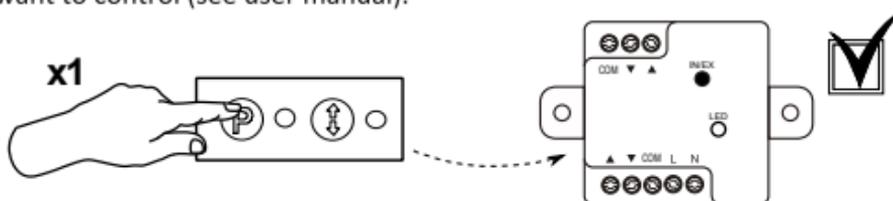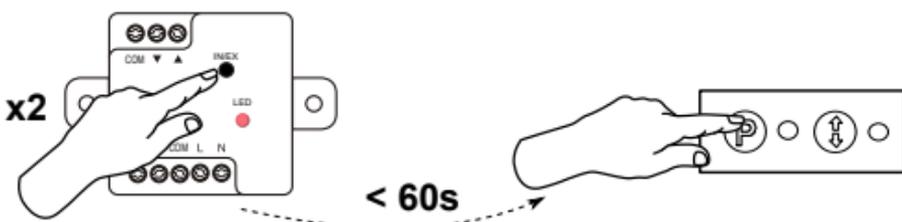

After correct adding, LED on the module goes off.
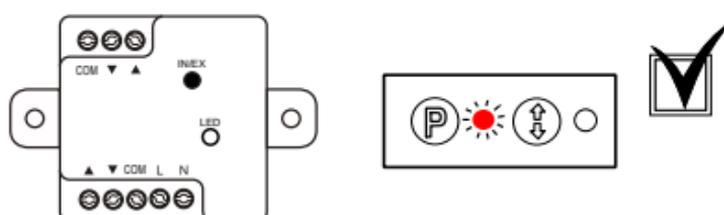The module is ready to control the device!

Removing device from the Z-Wave network (Exclude)

This function is possible when the module is set as a primary controller!
1. Press shortly twice IN/EX switch on the module.

2. When red LED is on, press P button within 60 seconds on the device (see user manual).
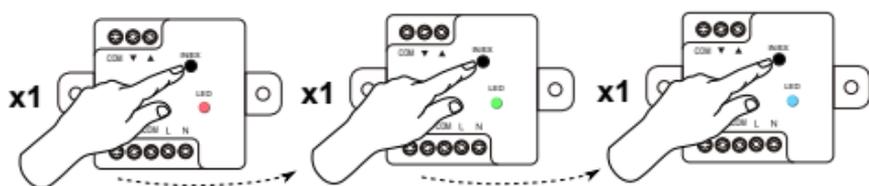

Once the device is correctly removed, red LED on the module goes off, while network status LED on the device is on.

Module reset

Reset of the Z-Wave network in the module (Default)

1. Press IN/EX switch and hold until LED turns red.
2. Press IN/EX switch for the second time and hold until LED turns green.
3.Press IN/EX switch for the third time and hold until LED turns blue.

After correct performance of the procedure, LED will blink sequentially in red, green and blue.

Reset of the module configuration parameters

Press shortly 5 times IN/EX switch to restore default parameters of the module.
After correct performance of the procedure, LED will blink sequentially twice in red, green and blue.

Change of module parameters

Parameter 1
Changing Basic work modes for Multilevel and vice versa

You can check the current mode by controlling the device and observing the colour of LED.
Green - Basic, Blue - Multilevel.

Supported values: 1 = Basic, 2 = Multilevel (default: 1)

Changing Basic work mode for Multilevel:

Press IN/EX switch on the module and hold until LED turns red and then blue, then release the switch.

Changing Multilevel work mode for Basic:

Press IN/EX switch on the module and hold until LED turns red and then green, then release the switch.

Warranty

The manufacturer guarantees correct device functioning. It also undertakes to repair or replace faulty device if damage is a result of material or structural faults. The warranty period is 24 months from the date of purchase, fulfilling the following conditions:
•Installation has been performed by an authorised individual, as per manufacturer recommendations.
•Seals remain intact and no authorised structural changes have been made.
•The device has been used in accordance with its intended use as per user manual.
•Damage is not a result of improperly made electrical system or atmospheric phenomena.
•The manufacturer is not liable for damage which occurred as a result of improper use or mechanical damage.
In case of failure, the device must be submitted for repair with a Warranty Card. Defects revealed within the warranty period will be removed free of charge no longer than 14 days after accepting the product for repair. Warranty and post-warranty repairs are performed by the manufacturer i.e. FAKRO PP. Sp. z o.o.

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